PCT

For receiving Office use only	
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Application"	

REQUEST		,	
3— C	International Filing Date		
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office	ce and "PCT International Application"	
	Applicant's or agent's f (if desired) (12 characte		
BOX NO. I TITLE OF INVENTION FUNCTIONAL MOLECULAR ELEMENT AND FUN	ICTIONAL MOLECU	LAR DEVICE	
Box No. II APPLICANT This person	n is also inventor		
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen SONY CORPORATION	the address indicated in this	Telephone No. 03-5448-2111 Facsimile No.	
7-35, Kitashinagawa 6-chome, Shinagawa-ku, TOKYO 141-0001 JAPAN		03-5448-2244 Teleprinter No.	
Shillagawa-ku, lokio 141-0001 baran		•	
		Applicant's registration No. with the Office	
State (that is, country) of nationality: JAPAN	State (that is, country)	of residence: JAPAN	
		the United States of America only the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FUR	THER) INVENTOR(S)		
Name and address: (Family name followed by given name; for a legal end the address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residence is no State of residence. SONY INTERNATIONAL (EUROPE) G.m.b. Kemperplatz 1, 10785 Berlin GERMAN	f the address indicated in this mee is indicated below.) H •	This person is: V applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: GERMANY	State (that is, country,) of residence: GERMANY	
	ated States except States of America	the United States of America only the States indicated in the Supplemental Box	
V Further applicants and/or (further) inventors are indicated	d on a continuation sheet.		
Box No. IV AGENT OR COMMON REPRESENTATIV	E; OR ADDRESS FOR	R CORRESPONDENCE	
The person identified below is hereby/has been appointed to acoust of the applicant(s) before the competent International Authorities	et on behalf ies as:	agent common representative	
Name and address: (Family name followed by given name; for a legal e The address must include postal code and name of 12288 Attorney TSUNODA Yoshisue	f country.)	03-3343-5821	
Shinjuku Bldg., 8-1, Nishishinj Shinjuku-ku, TOKYO 160-0023 JAPA		Facsimile No. 03-3348-2746	
		Teleprinter No.	
		Agent's registration No. with the Office	
Address for correspondence: Mark this check-box who space above is used instead to indicate a special address	ere no agent or common re to which correspondence	epresentative is/has been appointed and the should be sent.	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
If none of the following sub-boxes is used, this sheet should not be included in the request.			
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is MATSUI Eriko c/o SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, TOKYO 141-0001 State (that is, country) of nationality: JAPAN This person is applicant all designated states the United States.	full official designation. address indicated in this is indicated below.) JAPAN State (that is, country) States except tes of America	This person is: applicant only V applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence HARNACK Oliver c/o SONY INTERNATIONAL (EUROPE) G.m Hedelfinger Str. 61, Stuttgart, GER	address indicated in this is indicated below.)	This person is: applicant only V applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: GERMANY State (that is, country) of residence: GERMANY			
This person is applicant all designated for the purposes of: all designated the United States the United States		the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Bax is the applicant's State (that is, country) of residence if no State of residence is indicated below.) MATSUZAWA Nobuyuki c/o SONY INTERNATIONAL (EUROPE) G.m.b.H. Hedelfinger Str. 61, Stuttgart, GERMANY This person is: upplicant only papplicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: JAPAN	State (that is, country	of residence: GERMANY	
This person is applicant all designated all designated for the purposes of:	States except vites of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Bax is the applicant's State (that is, country) of residence if no State of residence is indicated below.) YASUDA Akio C/O SONY INTERNATIONAL (EUROPE) G.m.b.H. Hedelfinger Str. 61. Stuttgart, GERMANY This person is:			
State (that is, country) of nationality: JAPAN	State (that is, country)	of residence: GERMANY	
This person is applicant all designated all designated	1 States except ates of America V	the United States the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated on another continuation sheet.			

Sheet No.3..

Box No.	V DESIGNATION OF STATES	Mark the applicable check-boxes below; at l	least one must be marked.
The follo	wing designations are hereby made un	der Rule 4.9(a):	
Regiona	l Patent		
[™] AP	SL Sierra Leone, SZ Swaziland, TZ V State which is a Contracting State of	Gambia, KE Kenya, LS Lesotho, MW Ma Jnited Republic of Tanzania, UG Uganda, ZM the Harare Protocol and of the PCT (if other k	Zambia, ZW Zimbabwe, and any other ind of protection or treatment desired,
	RU Russian Federation, TJ Tajikista Patent Convention and of the PCT	Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ l n, TM Turkmenistan, and any other State which	h is a Contracting State of the Eurasian
V EP	Republic, DE Germany, DK Denma HU Hungary, IE Ireland, IT Italy, LU	selgium, BG Bulgaria, CH & LI Switzerland an rk, EE Estonia, ES Spain, FI Finland, FR Fran J Luxembourg, MC Monaco, NL Netherlands, I y, and any other State which is a Contracting S	nce, GB United Kingdom, GR Greece, PT Portugal, RO Romania, SE Sweden,
	GA Gabon, GN Guinea, GQ Equate TD Chad, TG Togo, and any other S of protection or treatment desired, s	J Benin, CF Central African Republic, CG Co orial Guinea, GW Guinea-Bissau, ML Mali, M tate which is a member State of OAPI and a Co pecify on dotted line)	IR Mauritania, NE Niger, SN Senegal, intracting State of the PCT (if other kind
		or treatment desired, specify on dotted line):	
		HR Croatia	
		☑ HU Hungary	
MAL	Albania	☑ ID indonesia ☑ IL Israel	PH Philippines
IVI AM	Ametria	VIN India	PT Portugal
	Australia		RO Romania
	Azerhaijan	□ JP Japan	
₩ BA	Bosnia and Herzegovina	WKE Kenya	
1 —			SC Seychelles
Ŭ BG	Bulgaria	——————————————————————————————————————	SD Sudan
₩ BR	Brzzil	of Korea 🔽	
₩ BY	Belarus	KR Republic of Korea	SG Singapore
1 *		₩ KZ Kazakhstan V	
	Canada	<u> </u>	SL Sierra Leone
	& LI Switzerland and Liechtenstein	•	SY Syrian Arab Republic
VI CN	China	LI Liberia	VIJ lajikistan
	Costa Rica		TN Tunisia
	Cuba		TR Turkey
	Czech Republic		TT Trinidad and Tobago
[7] DE	Germany	MA Morocco	v
T DE	C Denmark	MD Republic of Moldova	
□ DN	1 Dominica		UA Ukraine
□ D2	Z Algeria	MG Madagascar	UG Uganda
Ŭ EC	Ecuador	MK The former Yugoslav Republic of	
	E Estonia		
₩ ES	S Spain	MN Mongolia MWMalawi	UZ Uzbekistan
		MX Mexico	VC Saint Vincent and the Grenadines
□ GI	B United Kingdom		T VI Sorbin and Montenage
I I G	D Grenada E Georgia	VI MIZ MOZZINDIQUE	ZA South Africa
M G	H Ghana	7 NO Norway	Z ZM Zambia
· —	M Gambia	NZ New Zealand	ZW Zimbabwe
Checl	k-boxes below reserved for designating	States which have become party to the PCT af	ter issuance of this sheet:
		addition to the designations made above, the a	
other exclu any d	designations which would be permitt ded from the scope of this statement. T esignation which is not confirmed before	and another the PCT except any designation(s) included under the PCT except any designation(s) included applicant declares that those additional design the expiration of 15 months from the priority (Confirmation (including fees) must reach the recommendation of the priority (Confirmation (including fees) must reach the recommendation (including fees) must reach the recommendation (including fees)	dicated in the Supplemental Box as being nations are subject to confirmation and that date is to be regarded as withdrawn by the
applie	cant at the expiration of that time timit.	(Conju mation (including Jees) miss reach the rec	arais Office within the 12-moral three mill.)

Supplemental Box If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No..." (Inducate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
 - (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available; in such case, write "Continuation of Bax No. III" and indicate for each additional person the same type of information as required in Bax No. III. The country of the address indicated in this Bax is the applicant's State (that is, country) of residence if no State of residence is indicated below;
 - (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. III" or "Continuation of Boxes No. III" and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
 - (iii) if, in Box No. II or in any of the sub-baxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. II" or "Continuation of Box No. II" and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
 - (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
 - (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each state (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
 - (vi) if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
 - 2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

[Continuation of Box No. IV]
11351 Attorney ISOYAMA Hironobu
Shinjuku Bldg., 8-1, Nishishinjuku 1-chome,
Shinjuku-ku, TOKYO 160-0023 JAPAN

Telephone No. 03-3343-5821 Facsimile No. 03-3348-2746

Sheet No. 5

Box No. VI PRIORITY C	LAIM			
The priority of the following e	arlier application(s) is hereb	oy claimed:		
Filing date	Number	Where earlier application is:		
of earlier application of e (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1)				
25.12.02	P2002-373973	JAPAN		
item (2)				
item (3)				
item (4)				
item (5)				
Further priority claims	are indicated in the Supplem	nental Box.		
international search, indicated ISA / J.P	TIONAL SEARCHING AN earching Authority (ISA) (is to the Authority chosen; the forest	Organization for which that UTHORITY if two or more International wo-letter code may be used to that search (if an earlier	l Searching Authorities at l): - search has been carried	re competent to carry out the
Date (day/morth/year)	Nu	mber Co	ountry (or regional Office	·)
Box No. VIII DECLARA	ATIONS			
The following declaration check-boxes below and indi	s are contained in Boxes No icate in the right column the r	os. VIII (i) to (v) (mark th number of each type of dec.	e applicable laration):	Number of declarations
Box No. VIII (i)	Declaration as to the ide	entity of the inventor		:
Box No. VIII (ii)	Declaration as to the ap date, to apply for and b	pplicant's entitlement, as a e granted a patent	t the international filing	:
Box No. VIII (iii)	Declaration as to the apdate, to claim the prior	pplicant's entitlement, as ity of the earlier applicati	at the international filing on	3 :
Box No. VIII (iv)	Declaration of inventor United States of Ameri	rship (only for the purpose ica)	es of the designation of the	: :
Box No. VIII (v)	Declaration as to non-p	prejudicial disclosures or e	exceptions to lack of nov	elty :

Box No. IX CHECK LIST; LANGUAGE C	F FILING				
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items			
request (including	1. ☑ fee calculation sheet	: 1			
declaration sheets) : 6	2. original separate power of attorney	:			
description (excluding	3. original general power of attorney	:			
sequence listings and/or tables related thereto) : 32	4. 🔯 copy of general power of attorney; reference number,				
claims : 3	if any:	: 2			
abstract : 1	5. statement explaining lack of signature	:			
drawings : 16	6. priority document(s) identified in Box No. VI as item(s):	. :			
Sub-total number of sheets: 58 sequence listings:	7. translation of international application into (language):				
tables related thereto :	8. separate indications concerning deposited microorganism or other biological material	•			
(for both, actual number of sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form	•			
computer readable form; see (c) below) —————	 (indicate type and number of carriers) (i) ☐ copy submitted for the purposes of international search under the purpose of international search under the purpose. 	r om) i			
Total number of sheets :	Rule 13ter only (and not as part of the international application (ii) (only where check-box (b)(i) or (c)(i) is marked in left column)				
(b) only in computer readable form (Section 801(a)(i))	additional copies including, where applicable, the copy for t purposes of international search under Rule 13 <i>ter</i>	:			
(i) ☐ sequence listings (ii) ☐ tables related thereto	 (iii) together with relevant statement as to the identity of the cop- copies with the sequence listings mentioned in left column 	or :			
(c) also in computer readable form	10. tables in computer readable form related to sequence listings (indicate type and number of carriers)				
(Section 80 I(a)(ii)) (i) ☐ sequence listings	 (i) copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international search under the company of the international search under the company of the company o	r nal			
(ii) ☐ tables related thereto	application)	:			
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column additional copies including, where applicable, the copy for purposes of international search under Section 802(b-quate.	he			
sequence listings:	(iii) together with relevant statement as to the identity of the cop				
tables related thereto:	copies with the tables mentioned in left column	:			
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. other (specify):	. :			
Figure of the drawings which should accompany the abstract: 1	Language of filing of the international application: Japanese				
Box No. X SIGNATURE OF APPLICAN Next to each signature, indicate the name of the person six	T, AGENT OR COMMON REPRESENTATIVE uping and the capacity in which the person signs (if such capacity is not obvious from read	ing the request)			
TSUNODA Yoshisue(Seal)					
ISON	YAMA Hironobu(Seal)	•			
For receiving Office use only					
Date of actual receipt of the purported international application:		awings: received:			
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
Date of timely receipt of the required corrections under PCT Article 11(2):		not received:			
5. International Searching Authority (if two or more are competent): ISA /	JP 6. Transmittal of search copy delayed until search fee is paid				
	For International Bureau use only				
Date of receipt of the record copy by the International Bureau:					